



Certificate of Analysis

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Client : Sprague
Product : #6 Fuel Oil

Report No : 28624
SGS File No : 831667

LIMS No : 28624 - 151732

Lab No : P171600195

Sample Description : Shoretank 11, Composite UML sample. After discharge
Barge B-230. Sampled at Quincy MA. Sampled on
02-Jan-2006. Sampled by SGS.

✧ P171600195 ✧

Tested On : 1/3/2006

METHOD	TEST	RESULT	
ASTM D 4052	API Gravity	13.3	°
ASTM D445/D2161	Kinematic Viscosity, @122 °F	186.1	CST
ASTM D445/D2161	Kinematic Viscosity, @122 °F	88.27	SFS
ASTM D 4294	Total sulfur content	0.431	Wt-%
ASTM D 97	Pour Point	48	°F
ASTM D 93	Flashpoint PMCC, Procedure B	211	°F
ASTM D 1796	Water and Sediment by Centrifuge	0.10	% vol
ASTM D 95	Water by Distillation	0.05	Vol-%
ASTM D 4530	Micro Carbon Residue	6.22	Wt.%
ASTM D 473	Sediment By Extraction	0.05	Wt- %
ASTM D 3279	Asphaltenes	1.20	Wt-%
ASTM D 240	Gross Heat of Combustion per lb	18500	Btu/Lb
ASTM D 240	Gross Heat of Combustion per Gal	150516	Btu/Gal
ASTM D 482	Ash	0.057	Wt- %
AAS	Sodium, MDL=1	<1	ppm
AAS	Vanadium, MDL=1	13	ppm

Supervisor :

Date : 01/03/2006

Mohamed Naguib

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REPRESENTING THE SPECIFICATIONS OF THE PRODUCT AT THE SPRAGUE
TERMINAL IN TANK ON THE DATE OF INSPECTION NOTED ON THE CERTIFICATE.
THIS ANALYSIS IS PROVIDED TO THE CUSTOMER FOR THE PURPOSE OF
ESTABLISHING THE INDEPENDENTLY VERIFIED PRODUCT SPECIFICATION ON
A COMPOSITE BASIS IN SPRAGUE'S TERMINAL SHORE TANK AS NOTED ON THE
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Precision parameters apply in the determination of above test results. Also refer to ASTM D 3244-97/02, IP 367/96 and appendix E of IP standard methods for analysis and testing for utilization of test data to determine conformance with specifications.

Date printed: 01/03/2006

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